



# North San Diego County Vernon Payne Chapter 286

*President: Bob Wilson Vice President :Mike Talmadge Secretary: Dave Leedom Treasure: George Pruitte*

The meeting was called to order by President Bob Wilson at 19:03 hours.

## Old Business

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The calendars have arrived and members who placed orders can now pick them up. The price is \$ 8.50 per calendar. George Pruitte will accept the payment and give out the calendars.

President Bob Wilson reviewed the membership drive and the status of current membership levels. The recruitment program remains in progress.

## Speaker

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Jonathan Lieber, applications engineer for Go Engineer demonstrated the remarkable utility of SolidWorks programming for the design and characterization of three-dimensional structures. With the employment of this programming the designer can create structures in virtual reality and simulate combinations of stress, temperature, material, and fluid dynamics. Subtle structural variance can be created within minutes and immediately tested for effects on aerodynamic performance under a wide variety of flight conditions. Thus the experimental aircraft designer can create and fly his prototypes in cyberspace and then build the most promising concepts, saving years of trial and error and expense.

Greg Butler provided a practical design need in the form of an air intake for his

Subaru engine. Jonathan demonstrated the ease with which this problem could be translated to the screen and manipulated. A new part, complete with all attachments, was shaped before our eyes.

The demonstration was very convincing that SolidWorks, despite its very high sophistication, can be used by the craftsman who is not versed in esoteric math. This program is a practical tool that will pay for itself. It can be anticipated that in the non-too-distant future we will wonder how we ever did without it. While the program is modestly priced and affordable to the individual, EAA chapters might wish to consider purchasing a program for group use and incorporating it into the meeting format.

For an opportunity to experience SolidWorks, members can contact Jonathan Lieber at [jlieber@goengineer.com](mailto:jlieber@goengineer.com).

Curtis Chan, Patrick Rainsberry and Tommy Nguyn of GoEngineer also discussed aspects of SolidWork's application and are available at [www.goengineer.com](http://www.goengineer.com) to provide further information and technical support.

We are indebted to the folks at GoEngineer for providing us with a glimpse into a very exciting future.

The meeting was adjourned at 21:27 hours.